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The Students of Worcester Polytechnic Institute, "The Tech News Volume 5, Issue 14, December 16 1913" (1913). *Tech News All Issues*. Book 937.

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TECH NEWS



VOL. 5, NO. 14

WORCESTER, MASS., DEC. 16, 1913

PRICE, SEVEN CENTS

At Last--A Song Book

A SELF-EXPLANATORY COMMUNICATION

Editor of the TECH NEWS,

Dear Sir:—

A Tech song book is already under way. We have had special score paper printed for the work, and the manuscripts will be completed as soon as possible. The songs will be written for piano accompaniment first, orchestra and band scores will be arranged later, as soon as the piano scores are ready.

Information regarding Tech songs is earnestly desired. Words, music, and names of writers, dates, and everything else connected with the songs are wanted. Tech men are asked to send information regarding the above to Secretary Shedd, or to the undersigned.

It is the intention of the writers to place all the information obtainable on file in the Tech Y. M. C. A., or the office of the Institute. If the men will help by sending in whatever information they may have on the subject, the work will be greatly aided.

CHARLES A. THRASHER, '16

HAROLD B. STEWART, '15.

INDOOR TRACK ON DECK

TWO RELAY RACES SCHEDULED, WITH OTHERS PENDING—PROBABILITY OF A CONTEST WITH HOLY CROSS—PROSPECTS FOR A TEAM

Board Track is Put in Place

The indoor track season is at hand. The victories of our relay teams in the past make this season a bright one for Tech. Last year the only defeat suffered by the crimson and gray was administered by Wesleyan, and that was decided only by inches. This year Manager Pike has scheduled a race with Wesleyan for January 24 in the Irvington street gymnasium, Boston, and Tech's runners will make a big bid to wipe out the defeat. The fast quartet from the Massachusetts Agricultural College has been taken on for February 7 in Mechanics Hall, Boston, and other races are pending.

No doubt a meeting with the Holy Cross team will be effected, as the purple runners still feel the sting of last year's defeat. A local periodical recently attempted an explanation of the Holy Cross defeat, but the Tech runners take exception to the reasons given and wish to give their view of the matter. In the first place, the losing of the toss in other meets had nothing to do with the race under consideration. Secondly, the Tech runners wished before the race to lengthen the distance so that the result of the toss-up

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EX-MAYOR LOGAN, THIRD SPEAKER IN "BUSINESS SUCCESS" SERIES

E. E. HALL TOMORROW, 5.00 P. M.

Perhaps no one citizen of Worcester is so widely and favorably known as Hon. James Logan, for several years Mayor of the City and from his young manhood a friend of Worcester Polytechnic Institute, and every Tech man. In an article that appeared recently in the "Worcester Magazine" Mr. Logan was spoken of as Worcester's first and most beloved citizen. For the sake of the new men at the Institute who have not yet had an opportunity to become personally acquainted with Mr. Logan, the following brief sketch is given of his life.

Hon. James Logan, a trustee of the Worcester Polytechnic Institute, and First Vice-President and General Manager of the United States Envelope Company, is a native of Glasgow, Scotland, his parents coming to the United States when he was three months old. At the age of ten he began work in a woolen mill in Leicester. His rise in the business world has been remarkable and he is considered one of the ablest manufacturers and executives in the United States. He was the Vice-President of the South American tour of the Boston Chamber of Commerce this year and contributed materially by his diplomacy and eloquence to the success of that important undertaking. Both as Mayor and as a private citizen he has been responsible in large measure for the splendid reputation enjoyed by the City as an industrial and educational center.

(Continued on Page 3)

M. E. THESIS SUBJECTS

The following list of subjects from which the Senior Class in Mechanical Engineering will select their thesis work has been posted in the Engineering Building. The list, it will be noted, allows a variety of choice, containing as it does subjects in the various lines of Mechanical Engineering. It is also noted that several of the subjects call for work to be done in Worcester manufacturing plants thus bringing the student into close touch with manufacturers. Prof. W. W. Bird as Director of the Department has general oversight of the thesis work, and the work is subdivided giving immediate charge in Air and Gas Engineering to Professor D. L. Gallup, offering the following subjects: Construction and Test of Carburetor for Low Grade Gasoline, Design and Construction of a Speed Control for an Auto Engine, Automobile Efficiency and Effectiveness, Test of a Rotary Valve Auto Engine, Test of a Motorcycle, Test of a Newcomb Carburetor. In Hydraulic En-

(Continued on Page 4)

TECH MEN—ATTENTION

Big Reunion of Men Connected with Tech—Prof. I. L. Winter, Harvard, will Speak

This week Friday, at quarter to five, in the Electric Engineering Lecture Hall, Prof. I. L. Winter, professor of public speaking at Harvard, will read Dickens' "Christmas Carol." The object of this meeting, which was conceived by President Hollis, is to have a sort of Christmas reunion of all those connected with the Institute in any way. In other words this meeting is open to the Trustees, the Faculty, the Alumni, and the students, and will be well worth going to if for no other reason than to hear Professor Winter speak. He reads this same piece to the students of Harvard University and the people of Cambridge every year at Christmas time, so there can be no doubt as to his entertaining powers. All afternoon exercises on the Hill will be suspended at four-thirty o'clock so as to enable all to be present at this meeting.

R. U. GOING

To the concert and dance at the Electrical Engineering Building? Any man who neglects to look up some member of the Musical Organization and get a ticket—or better two tickets—for Thursday Night, December 18, 1913, is going to miss one of the E-VENTS of this year at Tech.

The glee club, mandolin club and orchestra are all going to be there and present a concert which surpasses anything hitherto presented at Tech by the Musical Organization. At nine-thirty dancing will commence in the E. E. Lab. and last until 12 o'clock.

Dr. Harpin and Mr. Wood have rounded out the best set of musical clubs that this school has ever seen and it's up to every Tech man to show up on Thursday evening and show that he appreciates the work that has been put into this organization by everyone connected with it. If you don't care for dancing come to the concert anyway and see what your Tech brothers look like when they aren't on the Hill for business. The glee club now has over fifty members and as a special feature will present one or two numbers in combination with the orchestra.

Tickets are also on sale at the stock room—at thirty-five cents each. This price does not enable the Musical Organization to make money, but will enable them to pay the year's expenses and also enables every single man at Tech to have a mighty enjoyable evening.

Don't forget the time—Thursday Evening at eight o'clock sharp.

TECH AND CLARK TO BE REPRESENTED BY EIGHT DELEGATES AT KANSAS CITY CONVENTION

The Quadrennial Convention of the Student Volunteer Movement is to be held in Kansas City, Missouri, December 31 to January 4, 1914. Five thousand students and faculty members will assemble from 800 colleges and universities as delegates to this, the greatest student convention held under any auspices in this country.

Representation at this convention is based on the enrollment of the institution. Two delegates are allowed for the first two hundred students enrolled and one delegation in addition for every additional two hundred students or fraction thereof. In addition, because of the first convention of the Chinese Student Christian Association Convention being held in conjunction with this convention, the institution is entitled to be represented by Chinese delegates in accordance with the rules laid down by the executives of the Chinese Association. This allows Tech six, and Clark two delegates.

The plan hit upon by our Worcester Student Associations has been to ask each delegate to furnish approximately one-third of his expenses and to ask the larger Churches of the city to furnish the rest. In the case of the Chinese students nearly two-thirds is being furnished by these men, with the help of the Chinese Christian Association. The Churches of the city have responded very generously and

(Continued on Page 4)

CALENDAR

MONDAY—5.00 P. M. Physics Colloquium.

5.00 P. M. Glee Club Practice.

5.00 P. M. Orchestra Practice.

6.45 P. M. Meetings of Bible Study Groups.

TUESDAY—5.00 P. M. Meeting Tech News Association.

5.00 P. M. Mandolin Club Practice.

6.00 P. M. Meeting Bible Study Leaders.

WEDNESDAY—5.00 P. M. E. E. Building. A Practical Talk on "Business Success," by Hon. James Logan.

THURSDAY—4.30 P. M. Meeting of Wireless Association.

5.00 P. M. Mandolin Club Practice.

8.00 P. M. E. E. Building. Concert and Dance by Musical Association.

FRIDAY—4.45 P. M. E. E. Building. Professor Winter of Harvard will read Dickens' "Christmas Carol."

5.00 P. M. Glee Club Practice.

5.00 P. M. Orchestra Practice.

8.00 P. M. Civil Engineering Meeting.

SUNDAY—3.30 P. M. Y. M. C. A., 10 Elm St. Two Christmas reels of motion pictures. Refreshments, and music.

4.00 to 6.00 P. M. President Hollis receives at his home.

SPECIAL—Get your Tech Calendars. Watch for announcements on Bulletin Board of Tech Show Rehearsals.

TECH NEWS

Published every Tuesday of the School Year by

The Tech News Association of Worcester Polytechnic Institute

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Subscription per year \$1.75
Single Copies .07

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All communications should be addressed to Tech News, Worcester Polytechnic Institute.

All checks should be made payable to the Business Manager.

The Tech News welcomes communications but does not hold itself responsible for the opinions therein expressed.

All material should be in before Thursday noon at the latest in order to have it appear in the week's issue.

Entered as second class matter, September 21, 1910, at the postoffice at Worcester, Mass., under the Act of March 3d, 1879.

THE DAVIS PRESS
Graphic Arts Building

NOTICE

There will be a regular meeting of the Tech News Association tonight at five o'clock, sharp, in the TECH NEWS building. This is the regular monthly meeting of the Association and all members are requested to be present.

Editorials

Another month is over and we hope you all made good. There are three weeks left before mid-year exams and there is still a chance, no matter what you have done so far. Keep after the work from now on; make good use of the review in every subject, and you cannot help but come through alright.

That there is a real demand for more general athletics at Tech was clearly shown by the interest in the class and division games at the Oval. There were over fifty men who took part in these two games under anything like ideal conditions. This is much better than having a dozen or twenty men out for practice, and should be encouraged. The class relay races after vacation will give another large number a chance to compete and should be of great help in developing new

material. It is too bad that all class contests cannot be held at the beginning of the season.

The Y. M. C. A. is to be congratulated on the lectures being given at the Wednesday afternoon Populars. The large attendance shows that they are appreciated and there can be no doubt but that the men here gain much from them. It is too bad that we have no room large enough to hold the entire student body so that at least weekly meetings could be held and such addresses be made a regular part of the schedule here. This is but one of the advantages of such meetings and when this is done a great change will be seen in Tech spirit.

The Fall River Club at Tech has subscribed for two numbers of the TECH NEWS to be sent weekly to B. M. C. Durfee High School in that city. This is in accordance with the aim of the Club which is to promote Worcester Tech's interests in that city. This is the spirit that will make Tech a big institution and it is hoped that other groups of men will be formed with similar purposes. In this twentieth century age of hustle and education, a school's enrollment depends largely on advertisement and, since Tech hasn't a million dollar endowment, the responsibility rests largely upon the students and alumni.

As will be seen by the communication in this week's issue concerning the Tech Song Book, there is really such an article in the course of construction. It may seem a little egotistic on our part, but nevertheless we can't help but take a little pride in the fact that it was through the columns of the NEWS that this movement was carried on. We hope that there will be a response to the call for information that the future publishers of the Song Book have issued.

After such an article as appeared in the sporting columns in the Worcester "Telegram" one morning last week in which the principle subject seemed to be the proof, from their point of view, that the Holy Cross Relay team was far superior to the Tech team, any man that has any ability and has the time, but does not come out for the relay team deserves ostracism by his classmates. What we have got to do is to turn out a relay team that will give us a decisive victory over Holy Cross, and this can only be done by everyone's turning out so that it will be possible to get the best available material. Come now, men, show your loyalty to your school.

MISS RUBY H. DAY : : DANCING

New Class opens this Friday
December 19, at 8.30 p.m.

To Teach the New Dances

\$1.00 to enter, which covers two lessons,
then 50 cents each lesson.

Assembly this Saturday, December 20

Terpsichorean Hall Hardy's Orchestra

50 cents, covering refreshments

The last dance before vacation

Everybody come

The Seniors this year seem to be having almost as much trouble in paying their *Aftermath* dues the last year's Seniors did. Seniors, there is no better way to have a "best ever" *Aftermath* than to pay your dues promptly and thus show your confidence in the present board. We know that you want the very best book possible, so why not do your part in producing it?

The fact that after a man has been to one of President and Mrs. Hollis' Sunday afternoon receptions, he wants to go again, shows how much the student body enjoys and appreciates these affairs in which the men are being accorded an unusual courtesy by the President and his wife.

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LOGAN TO SPEAK

(Continued from page 1)

It would be impossible in the limited space allowed for this article to enumerate the many different civic interests of Mr. Logan. Probably there is no worth while benevolent enterprise in the city that has not at some time been helped by his personal influence as well as the contributions made from his own means.

No man is more popular as a speaker to Tech men, because throughout his long career of usefulness he has always thrown the weight of his influence in favor of every proposition for the upbuilding of every Tech interest.

His talk on "Business Success" tomorrow afternoon will be one of the very best in the series offered this year on the Hill. You will want to hear him. Don't allow anything to prevent you from being at this meeting.

A QUERY

A question equivalent to, "When is this year's catalogue of the Institute coming out?" is heard on every hand at Tech Hill. The only difference we can see from year to year in the issue is a revision of the lists of students and it seems that a month is sufficient time for a live person to edit the same, allowing for the adjustment of registration at the opening of school. Many times during the first half year the names and addresses of members of the entering class, to say nothing of upper classmen at new locations, are desired by different Tech organizations and individuals.

The only reason we can see possible for such a delay is that the Institute is overstocked with last year's edition and wants to exhaust it before getting out an up-to-date issue. About the only way possible for Tech to get a useful copy of the catalogue seems to be to exhaust the old edition. It is hoped that such a business depression through an overstocked market will not occur again.

ALUMNI CONVENTION

In Chicago, Nov. 21 and 22, the Association of Alumni Secretaries met for a convention. All the states from Massachusetts to California were represented, and the Secretaries were on the job giving and taking pointers on the best methods of doing business. Special emphasis was laid on the value of publications and also on the most effective methods of raising money for special purposes. Tech was represented by Professor Butterfield, who gave a paper on "How to Raise \$200,000," and in recognition of his ability he was made a member of the executive committee.

ALUMNI FIELD

The work on Alumni Field is well on the road to completion, and it will be continued as long as the weather permits. The top surface has been put on the field and the layer of broken stone is now being put on the track, most of it coming from the stone wall at the top of the hill. The cinders are already on the field and will be spread over the broken stone. The grading is finished, and the steam shovel (which, by the way, is a vest pocket edition of those used on the Panama Canal) has been taken away, leaving the removal of the cow-shed, and the filling of the 220-yard straight-away as clean-up jobs. We hope that the work will be completed before winter closes in as otherwise the track may not be in condition for practice next year.

TECH'S BEST CALENDAR ON SALE

Have you seen it? No New England college has a better calendar this year and no college is selling a calendar equally good for less than one dollar. The price has been put as low as possible and positively no copy of this calendar will be sold for less than the advertised price—except in the case of the 100 calendars sold to the Institute to be used for advertising purposes.

Last year every calendar was sold out two days before Christmas and many who waited until the last moment were disappointed. The calendar this year is worth 50 cents more than last year's calendar and yet it sells for only 75 cents and 65 cents if bought in lots of 5 or more at one time.

The proceeds of the calendar sale go towards the support of the work carried on by the Tech Y. M. C. A. For years this has been one of its regular sources of revenue. You can help yourself by solving your problem of acceptable Christmas presents at a low price and at the same time help the work being carried on for Tech by the Y. M. C. A. by patronizing this calendar sale.

W. G. Bullard, '13, is acting as an instructor in laboratory work and First Year Algebra, at Dean Academy.

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M. E. THESIS (Continued from Page 1)

gineering, in charge of Prof. C. M. Allen, the following subjects are given: Test of Water Wheel Governor, Test of a Goulds Centrifugal Pump, Rating Current Meters in Still and Moving Water, Comparison of Various Types of Current Meters, Test of a High Speed Water Wheel, Dynamometer Control by an Automatic Pump. In Steam Engineering, in charge of Prof. C. A. Reed, are given: Test of an Absorption Refrigerating Plant, Design of a Low Range Cut-Off for a Corliss Engine, Test of a Two Stage Coppus Turbo-Blower, The Smoke Investigation in the City of Worcester, Boiler Efficiency at Under-rated Loads, Efficiency of Pipe Coverings, Strength of Materials, in charge of Prof. J. H. Nelson, offers: Holding Value of Lag Screws in Timber and Concrete Holding Value of Expansion Bolts in Concrete; Effect of Low Temperature on the Physical Properties of Steel, The Heat Treatment of Alloy Steels, The Construction and Calibration of an Electric Furnace for the Heat Treatment of Steel, Physical Properties of Gray Iron Castings from Permanent Molds, Autoclave Tests for Cement and Concrete, A Study of the Strength of Pipe for Structural Work. The work in Power Transmission is in charge of Mr. F. W. Roys, and the subjects are as follows: Efficiency of Bevel Gear Drives, Efficiency of Quarter Turn Belt and Rope Drives, Effect of Center Distances on the Efficiency of Belt Drives, Efficiency of Rope Drives, Efficiency of the Diamond Chain Drive, Effect of Air Grooves on the Efficiency of Belt Drives. In Shop Engineering, in charge of Mr. H. P. Fairfield, are: A Shop Cost and Accounting System, A Cost System for the Power House, Cost Study in Local Manufacturing Plants, The Efficiency of Power Transmission in Machine Tools, Investigation of the Point Thinning of Drills, Power Requirements in Machine Tapping, The Durability of Packing for Case Hardening of Steel.

TECHNICALITIES

Prof. C. A. Read, Professor of Steam Engineering, has received a communication from Mr. Henry A. MacGowan, Chairman of the Smoke Abatement Committee of the Chamber of Commerce, making a formal request that the smoke research which was conducted by Professor Read last year be continued this year. The request is also cordially endorsed by Mayor Geo. M. Wright who is a member of the Committee. The work done last year was pioneer work in Worcester and Professor Read placed the results obtained at the disposal of the Mayor and the Smoke Abatement Committee, who have found the data of great assistance in the attempt being made by this Committee of solving the present and future of the smoke problem as it concerns Worcester. Several managers of manufacturing firms whose stacks were noted and recorded in last year's research work have made changes based on the report which have radically altered the smokiness of their furnaces and have been glad to do what they could to abate the smoke nuisance in so far as their particular plants were concerned.

The Senior Chemists, with Dr. Calhane made a trip to the Merrimack Chemical Works at So. Wilmington, recently. These works are the largest in New England for the manufacture of acids, nitric, hydrochloric, and sulphuric, and other chem-

icals. The class had a chance to see these various processes in operation. The trip was in connection with the course in Industrial Chemistry.

KANSAS CITY CONVENTION

(Continued from Page 1)

Pilgrim Congregational and Trinity Methodist have each promised to be responsible for one delegate. Several other Churches are working on it and are to give us their answers next week.

No honor in a student's course can equal that of being selected to represent his institution at such a convention as this. After many hours of study and discussion the following men have been selected to represent Tech by the unanimous vote of both the missions committee and cabinet. Harland F. Stuart, '12, Sidney Swallow, '15, Douglas F. Miner, '15, and Nelson P. Ingalls, '17. Chinese delegates: Y. C. Mei, '14, and S. G. Yang, '14. Clark has selected as its delegates: Edward L. Saisselin, '14, and Conral C. Callis, '16.

The men will leave Worcester December 29, joining the train carrying the New England delegates, and arrive at Kansas City early December 31. They leave Kansas City at midnight, Sunday, January 4th, arriving in Worcester Tuesday afternoon, January 6th. They will be organized as a team and will give reports before the two student bodies and in the churches of the city upon their return.

TECH SHOW TRIALS

Large Squad Anxious for Parts

Over sixty would-be actors turned out Thursday in response to the call for candidates for the Tech Show. Coach Carroll and Assistant Coach Crotty were in charge and the business of selecting the available men was under way soon after four-thirty. Each man was allowed to choose the character for which he wished to try and was then given a fair chance to show his ability. There were a large number of contestants for each of the twenty-one parts, eight of which are feminine, and in many cases Coach Crotty will have a difficult task in picking the best man. He intends to choose two casts and then further reduce the squad a little later.

WORK STARTED ON RANGE

Rifle Club Received Permission to Use Boynton Hall Basement

The Rifle Club is rejoicing over the permission to install a range in the basement of Boynton Hall, after long delays and an unsuccessful attempt to secure the State Armory. The permission was secured last Thursday, and plans and work on the range started at once. The Executive Committee hopes to have it ready before the Christmas vacation, so that shooting can be carried on regularly after January 1.

Y. M. C. A. NOTES

Cabinet meeting Wednesday, 6:45 P. M. Business of importance. Every man out.

Donald Purrington, President of the Association, spoke before the State Executive Committee of the Y. M. C. A. of Massachusetts and Rhode Island, Wednesday afternoon, on the work of the Y. M. C. A. in a technical school. The meeting was held in the new Boston Y. M. C. A. building.

At a reception given to two hundred of the High School students of Woonsocket, R. I., Dick Keith, '14, spoke on "The Value of Clean Athletics." The reception was given under the auspices of the Boys' Department of the Woonsocket Y. M. C. A.

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INDOOR TRACK

(Continued from Page 1)

would make little material difference finally. Holy Cross, not accepting the proposal, had to take the consequences. And lastly, Tech men who saw the race affirm that the lead gained early in the race was not materially cut down by the subsequent runners.

The relay team is our most successful venture in athletics at present. This is not due to a few stars alone; it is because a large number of men are out trying for the team, and in the competition for a place the best men will have to be particularly good. Remembering this, it is up to every freshman who ever ran any or who has any inclination to do so to come out and push the leaders. If the leaders don't stand the pushing, the job falls to the man who pushes hardest.

Of last year's star team Bill Very and Stan Porter, two star regulars, and Donovan, substitute, will be missing. Captain Dick Keith is on hand to start things, and Warren and Moulton will back him up strongly. There will be a number of candidates out for the fourth place, and even the regulars will have to hustle to hold down their jobs.

Owing to a conflict of dates on Dec. 6, the board track failed to make an appearance on Alumni Field that day. The freshmen, however, were somewhat redeemed last Thursday by twenty of the class who appeared at Manager Pike's second call. The sections were brought to the field, and on Friday were put together.

AFTERMATH

"Spirit," not visibly so, that is to the Business Committee. Of the 93 students of 1914 only 52% have been interested enough in their class book to pay their dues; the other 48% are the kind that the collectors have to keep punching. The committee is doing your work in getting out the *Aftermath*; at least give them this much of a lift by paying your dues now.

The per cent of "spirit" by courses:

Civils	70%
Mechanics	48%
Electrics	42%
Chemists	33%

Class	52%
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The next time you see the collector hand him out the dues and watch the smile. They appreciate a thing like that as well as you will in not having him ask you for it again—and probably again. It is not an easy thing for the collectors to keep asking a man for the dues, and moreover instead of being looked up to for doing a thing for his class, he is more often avoided, not because of himself though he feels it, but because he is continually dunning for dues which are up to him to get. He is not doing it for the love of the thing for if he was he wouldn't get enough to start on. Give this percentage a lift so that the next report will show what you are as a class at least.

C. E. MEETING

The Civil Engineering Society will hold its regular monthly meeting on Friday evening, Dec. 19, at 8 o'clock. The speakers for the evening will be Mr. Keith, Mr. Jones, and Mr. Jenks, who will speak on their experiences in engineering work during the summer. Smokes on hand. Everyone welcome.



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Proposed Constituion of the "Tech Council"

The Proposed Constitution of the "Tech Council," as submitted in this issue, is one which the committee believes to be better adapted to the needs of the Institute than any other. The Constitution has been drawn up after much careful thought and while the ideas here expressed may be radically different from your own, upon first thought, we believe that you will agree with us when presented with the arguments which were brought up before the committee.

You will soon be asked to vote upon the ratification of this Constitution. Please examine the following carefully, and save this copy for future reference.

ARTICLE I

The name of this organization shall be The Council of the Worcester Polytechnic Institute.

ARTICLE II

The object of the Council shall be to further the interests of the Institute in all possible ways.

ARTICLE III

MEMBERSHIP

The Presidents of the Senior, Junior, Sophomore and Freshman Classes.

Two members from the Faculty.

Two Seniors-at-large.

One Junior-at-large.

The Editor-in-chief of the TECH NEWS.

(See Section 5.)

The President of the Institute shall be a member of the Council *ex-officio*.

Sec. 2. The Presidents of the Senior, Junior, Sophomore and Freshman Classes shall become members of the Council upon their election to their respective offices.

Sec. 3. Each member of the Council from the Faculty shall be chosen for a term of two years by the Faculty at the beginning of each school year and in such a way that one will retire each year.

Sec. 4. The Delegates-at-large shall be chosen by a majority vote of the class of which they are members at the beginning of the school year.

Sec. 5. The Editor-in-chief of the NEWS shall be considered as one of the delegates from the class of which he is a member and shall assume office at the beginning of the school year.

Sec. 6. Delegates shall hold office until their successors have been elected; except in the event of a delegate leaving school before his term has expired; in which case his successor shall be elected and shall assume office immediately.

ARTICLE IV

Section 1. The officers of this organization shall be a President, a Secretary and a Treasurer. The duties of these officers shall be the usual ones pertaining to their offices.

Sec. 2. The President, or in case of absence, the acting-President, i. e., the Presidents of the Senior, Junior and Sophomore classes, in the order named shall preside at all meetings of the Council.

ARTICLE V

Section 1. The officers of the Council shall be chosen by a two-thirds vote of all members at a meeting held during the second week in October.

Sec. 2. The President of the Council shall be chosen by the Council from the delegates from the Senior Class and shall hold office for the entire year.

Sec. 3. The Secretary and the Treasurer of the Council shall be elected by the Council and shall hold office during their membership in the Council.

ARTICLE VI

Section 1. The Council shall have the power to summons before it any member of the student body for the purpose of obtaining information which may be of assistance to the Council.

Sec. 2. It shall be the duty of the Council to act upon all questions referred to it; a two-thirds vote of all members being necessary.

Sec. 3. The Council shall have the power to contract bills which it may deem expedient and may levy assessments upon each class proportional to registration.

ARTICLE VII

A quorum shall consist of seven members including at least one Faculty member.

ARTICLE VIII

Any of the officers of the Council may be recalled at a special meeting called by five members of the Council, due notice having been given to every member, by a vote of two-thirds of all members of the Council.

ARTICLE IX

Amendments to this Constitution may originate in a meeting of the Council, any Class meeting, or a Faculty meeting. When the proposed amendment has received a majority vote of the body in which it originated, notice of that fact shall be given the Secretary of the Council. Class meetings shall then be called, which meeting, together with the proposed amendment, shall be advertised on all the general bulletin boards of the school, at least three days before the meeting. A two-thirds vote of all votes cast shall make the amendment legal.

ARTICLE X

This Constitution shall become effective immediately upon ratification by the four present classes.

Tech Council Committee:—

C. F. FRITCH, Chairman

W. J. KELLEY, '14

H. L. KANE, '14

H. L. TILTON, '14

W. N. ANTHONY, '15

H. C. BARNES, '15

C. H. BURGESS, '16

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